

## Microgravity trailer



### Transcript

[MUSIC PLAYING]

PROFESSOR: This is the International Space Station, or ISS, which is about 400 kilometres or 250 miles above us and orbits the earth 15 times a day. How does it do that though? And why doesn't the earth gravity pull it back down? How does a rocket overcome gravity, and what forces are involved there? And what has gravity got to do with new planets being formed?

Human endeavour in space has also impacted on our everyday lives here on Earth. As well as GPS and studying the stars, it's even helped us to study the ageing process. And you might be surprised to learn that the International Space Station helps us to study biology, chemistry, quantum physics, even banking and security. You see, it's all to do with microgravity.

If you've ever wondered why we need the famous Vomit Comet, whether you'd make a good astronaut or scientist, or what mouldy bread has to do with the International Space Station, it's time to explore microgravity in more detail.

[MUSIC PLAYING]